552,562

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





· 7.

(43) International Publication Date 21 October 2004 (21.10.2004)

PCT

(10) International Publication Number WO 2004/089895 A1

(51) International Patent Classification7:

(21) International Application Number:

PCT/SI2004/000019

C07D 207/34

(22) International Filing Date: 9 April 2004 (09.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

P-200300100 P-200300138

11 April 2003 (11.04.2003) 6 June 2003 (06.06.2003)

(71) Applicant (for all designated States except US): LEK PHARMACEUTICALS D.D. [SI/SI]; Verovskova 57, 1526 Ljubljana (SI).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): ANTONCIC, Ljubomir [SI/SI]; Podmiljscakova 43, 1000 Ljubljana (SI). SORSAK, Gorazd [SI/SI]; Crtomirova 3, 1000 Ljubljana (SI). COPAR, Anton [SI/SI]; Staretov trg 1, 1275 Smartno pri Litiji (SI).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE PREPARATION OF AMORPHOUS CALCIUM SALT OF ATORVASTATIN

(57) Abstract: Present invention refers to the process of preparing amorphous atorvastatin calcium without intermediate isolation of crystal or undefined mixture of crystal and amorphous atorvastatin calcium, respectively. Forming of calcium atorvastatin salt is carried out in a mixture of chlorinated organic solvent or cyclic hydrocarbon solvent, respectively, the non-hydroxylic organic solvent, and water, the source of calcium ions is calcium acetate or calcium chloride, respectively.